



HITACHI

SERVICE MANUAL

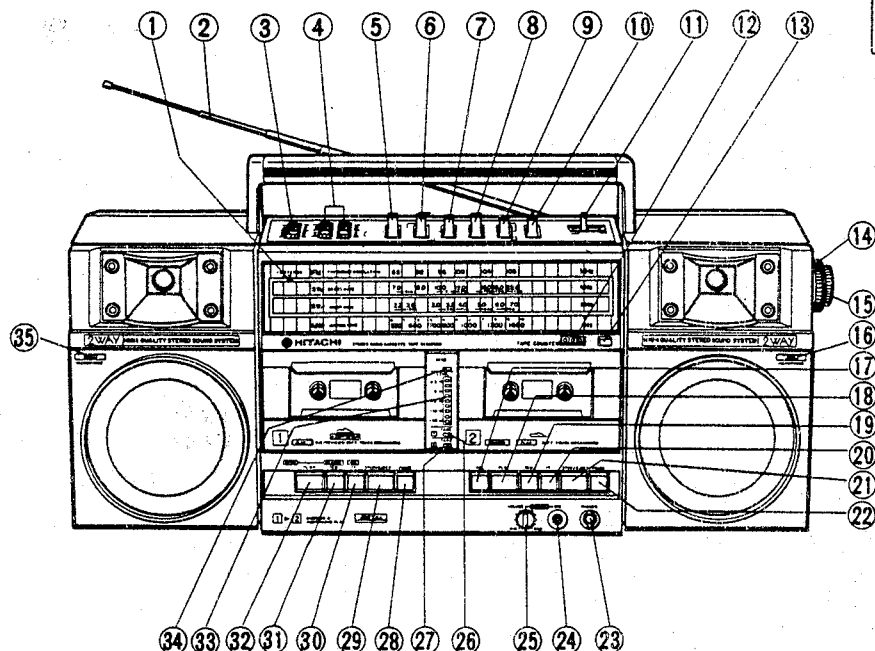
TK

No. 2165E

TRK-W57W

GT-50FB chassis [Tape 1]

GT-50FA chassis [Tape 2]



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KEY TO ILLUSTRATIONS

- | | |
|-------------------------------|------------------------------------|
| ① FM STEREO INDICATOR | ②③ HEADPHONES SOCKET |
| ② TELESCOPIC ANTENNA (AERIAL) | ④ MIXING MICROPHONE SOCKET |
| ③ TONE CONTROL | ⑤ MIXING MIC. VOLUME CONTROL |
| ④ VOLUME CONTROLS | ⑥ TAPE ① INDICATOR |
| ⑤ FUNCTION SELECTOR | ⑦ TAPE ② INDICATOR |
| ⑥ SPEAKER/INNER MIC. SELECTOR | ⑧ PAUSE BUTTON |
| ⑦ SPSS SWITCH | ⑨ STOP/EJECT BUTTON |
| ⑧ LOUDNESS SWITCH | ⑩ FAST FORWARD/CUE BUTTON } TAPE ① |
| ⑨ MODE SELECTOR | ⑪ REWIND/REVIEW BUTTON |
| ⑩ TAPE SELECTOR | ⑫ PLAYBACK BUTTON |
| ⑪ BAND SELECTOR | ⑬ LEVEL INDICATORS |
| ⑫ TAPE COUNTER | ⑭ SPSS INDICATOR |
| ⑬ COUNTER RESET BUTTON | ⑮ BUILT-IN MICROPHONE (LEFT) |
| ⑭ TUNING CONTROL | |
| ⑮ FINE TUNING CONTROL | |
| ⑯ BUILT-IN MICROPHONE (RIGHT) | |
| ⑰ RECORD BUTTON | |
| ⑱ PLAYBACK BUTTON | |
| ⑲ REWIND BUTTON | |
| ⑳ FAST FORWARD BUTTON | |
| ㉑ STOP/EJECT BUTTON | |
| ㉒ PAUSE BUTTON | |

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

FM/SW₂/SW₁/MW RADIO CASSETTE TAPE RECORDER

August 1984

TOKAI WORKS

442

SAFETY PRECAUTIONS

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makes. Critical parts are marked with Δ in the schematic diagram and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS
General Section

Semiconductors:	ICs: 7 Transistors: 17 Diodes: 15 LEDs: 9
Power Supply:	AC: 110—127V/200—220V/ 230—250V, 50/60Hz DC: 12V (IEC R20 x 8 or equivalent) Car: Use car battery adaptor
Power Consumption:	18W
Power Output:	20W P.M.P. (AC operation) 4W/CH (T.H.D. 10% DC)
Speakers:	Woofer: 12cm, 3.2 ohms x 2 Tweeter: 2cm, 300 ohms x 2
Dimensions:	589(W)x240(H)x143(D)mm
Weight:	6.5kg (with batteries)

Radio Section

Circuit System:	FM/SW ₂ /SW ₁ /MW Super- heterodyne
Tuning Range:	FM: 88 to 108MHz SW ₂ : 7 to 22MHz SW ₁ : 2.3 to 7MHz MW: 530 to 1,605kHz
Intermediate Frequency:	FM: 10.7MHz AM: 455kHz
Sensitivity:	FM: 11dB (pra.), 3dB (max.) SW ₂ : 30dB (pra.), 27dB (max.) SW ₁ : 47dB (pra.), 38dB (max.) MW: 47dB (pra.), 37dB (max.)
Antennas(Aerials):	FM/SW ₂ : Telescopic antenna MW/SW ₁ : Built-in ferrite core antenna

Tape Recorder Section

Tape:	Cassette tape (C-30,60,90)
Track System:	4 track 2 channel stereo
Recording System:	AC bias, 55kHz
Erasing System:	Quasi AC erase
Frequency Response:	Metal: 60 to 12,000Hz CrO ₂ : 60 to 11,000Hz Normal: 60 to 10,000Hz
Signal to Noise Ratio:	45dB
Wow and Flutter:	0.2% (WRMS)
Crosstalk:	Between tracks: 65dB Between channels: 40dB
Input Sensitivity and Impedance:	Mic: 0.6mV, 1.2k ohms Line-in: 500mV, 680k ohms
Output Level and Load Impedance:	Line-out: 700mV, 2k ohms Headphone: 8 ohms—2k ohms Ext. speaker: 3.2 ohms
Distortion:	3%
Erasing Ratio:	60dB
Fast Forwarding or Rewinding time:	105sec (using C-60)
Motor:	DC micromotor
Heads:	Permalloy

DISASSEMBLY

1. Cassette lids (TAPE 1 and TAPE 2) removal

1) Open cassette lid (TAPE 1) to remove the spring shown in Fig. 1.

2) Insert a (—) screwdriver between the cassette lid and the front case and pull the cassette lid toward you while pressing the screwdriver to outside.

Fig. 2 shows the right side of the cassette lid. Perform same procedure for the left side.

3) Insert a (—) screwdriver between the cassette lid and the mechanism chassis, press it in the direction of the arrow to remove the projection of the cassette lid. (Fig. 3). Then, the cassette lid can be removed.

4) Remove cassette lid (TAPE 2) in the same way.

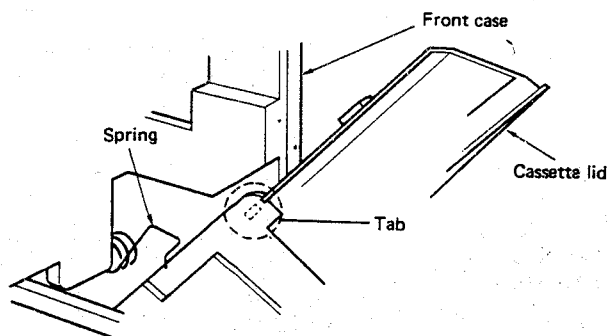


Fig. 1

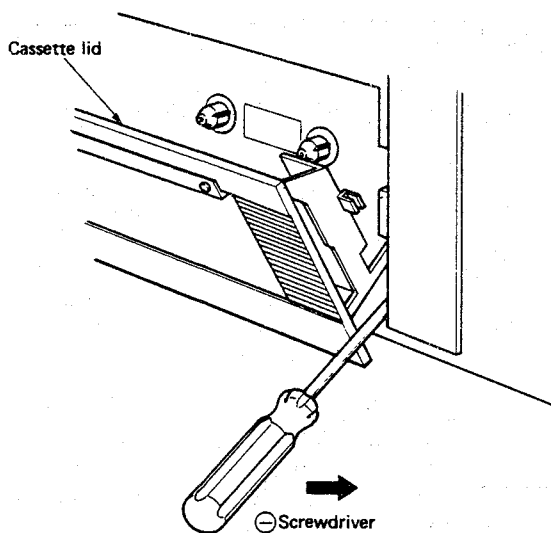


Fig. 2

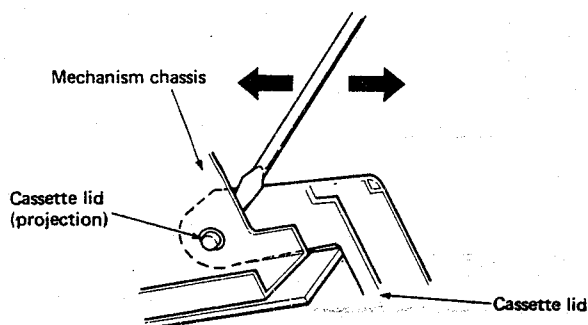


Fig. 3

2. Rear case removal

1) Remove the battery lid.

2) The rear case can be removed by removing 7 screws (A) shown in Fig. 4.

Remove Pin connectors P102, P103 of the main PC Board at that time.

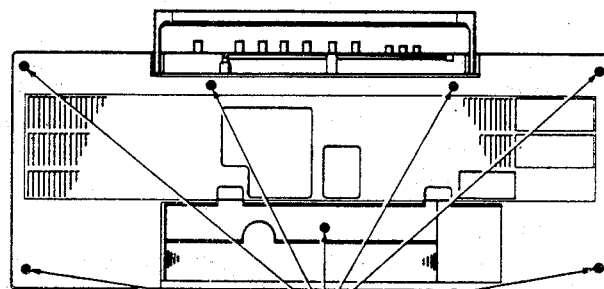


Fig. 4

3. Main and Switch PC Board removal (Fig. 5)

1) Pull out the BAND lever knob and FUNCTION, MIC/SP, SPSS, LOUDNESS, FM MODE, TAPE knobs.

2) Remove 5 main PC Board fixing screw (B), (C) shown in Fig. 5.

3) The switch PC Board is removed simultaneously when the main PC Board is removed from the front case.

4. Volume PC Board removal (Fig. 5)

1) Pull out the TONE, VOLUME L/R knobs.

2) Pull out the volume PC Board from the front case guide which fixes the volume PC Board.

5. Mixing volume PC Board removal (Fig. 5)

1) Pull out the mixing volume knob.

2) The mixing volume PC Board can be removed by removing the fixing screw (D) shown in Fig. 5

6. Jack PC Board removal (Fig. 5)

When the jack PC Board is turned to the left, locking is released and jack PC Board can be removed.

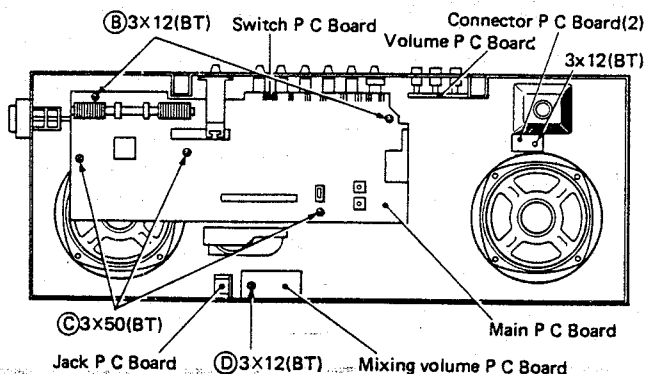


Fig. 5

7. Level indicator PC Board removal (Fig. 6)

The indicator PC Board can be removed by removing 2 fixing screws (E) shown in Fig. 6.

8. Stereo indicator PC Board removal (Fig. 6)

Open the stopper fixing the stereo indicator PC Board to remove the PC Board.

9. Cassette mechanism (TAPE 1 and 2) removal (Fig. 6)

The cassette mechanism (TAPE 1 and 2) are removed while they are assembled together by removing 6 screws (F) shown in Fig. 6.

10. POWER PC Board removal (Fig. 7)

Remove 2 screws (G) shown in Fig. 7 and pull out the power PC Board toward the front.

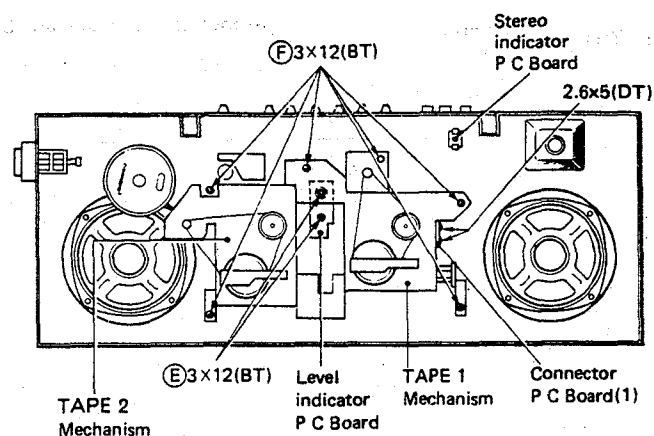


Fig. 6

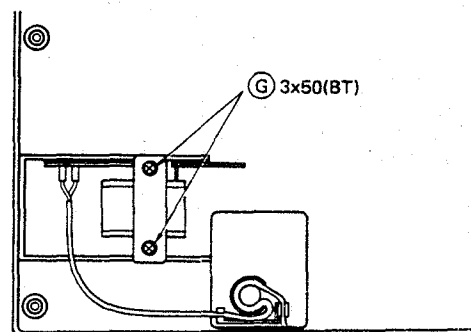
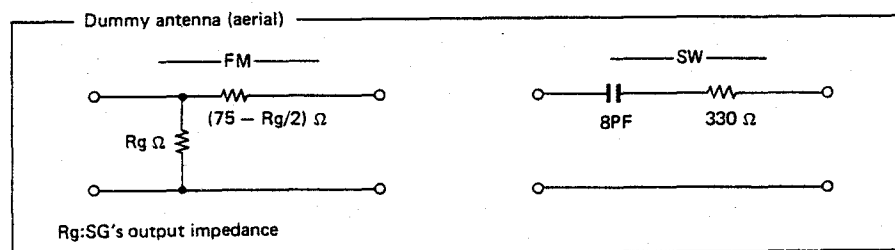


Fig. 7

ADJUSTMENT

1. Radio Section



Step	Adjustment Item	Measuring Instrument and Connection			Genescope or Signal Generator Frequency	Dial Pointer Position	Adjust	Reading
		Measuring Instrument	Input Terminal	Output Terminal				
1	(1) FM IF	Turn T202 fully counterclockwise.						
	(2) S-Curve	• Genescope (10.7 MHz)	TP102	TP201	10.7 MHz	Highest	T101	Note 1
							T202	Note 2
2	(1) FM OSC. (Covering)	• FM signal generator (400 Hz, 30% mod.) • Oscilloscope • VTVM	TP101 (thru FM dummy antenna)	Speaker terminals (3.2Ω load)	87 MHz	Lowest	L102	Max.
	109 MHz				Highest	CT102		
	3				(1) FM ANT. (Tracking)			
(2)		90 MHz	90 MHz	L101				
(3)		106 MHz	106 MHz	CT101				
4	(1) FM MPX (Multiplex)	• Frequency counter	Connect a 10μF 25V electrolytic capacitor between the No. 1 pin of IC301 and ground	TP301	—	—	RT301	38 kHz ±50 Hz (Note 3)
5	(1) AM IF	• Genescope (455 kHz)	Ferrite-core antenna (thru loop antenna)	TP201	455 kHz	Highest	T201 T203	Note 4
	(2)				Repeat step (1)			
6	(1) MW OSC. (Covering)	• AM signal generator (400 Hz, 30% mod.) • VTVM	Ferrite-core antenna (thru loop antenna)	Speaker terminals (3.2Ω load)	515 kHz	Lowest	L156	Max.
	(2)				1,650 kHz	Highest	CT156	
	7				(1) MW ANT. (Tracking)			
(2)		600 kHz	600 kHz	L152				
(3)		1,400 kHz	1,400 kHz	CT153				
8	(1) SW 1 OSC. (Covering)	• AM signal generator (400 Hz, 30% mod.) • VTVM	Ferrite-core antenna (thru loop antenna)	Speaker terminals (3.2Ω load)	2.2MHz	Lowest	L155	Max.
	(2)				7.3 MHz	Highest	CT155	
	9				(1) SW 1 ANT. (Tracking)			
(2)		2.7 MHz	2.7 MHz	L153				
(3)		6.3 MHz	6.3 MHz	CT152				
10	(1) SW 2 OSC. (Covering)	• AM signal generator (400 Hz, 30% mod.) • VTVM	TP101 (thru SW dummy antenna)	Speaker terminals (3.2Ω load)	6.7 MHz	Lowest	L154	Max.
	(2)				23 MHz	Highest	CT154	
	11				(1) SW 2 ANT. (Tracking)			
(2)		8 MHz	8 MHz	L151				
(3)		20 MHz	20 MHz	CT151				

Note:

1. Feed in a weak signal to TP102 from the genescope. Adjust T101 for maximum gain and the waveform indicated in Fig. 8. If the center of the waveform cannot be lined up on the marker, adjust the right/left balance.

Adjust the genescope output so that there is a little noise riding on the leading edge.

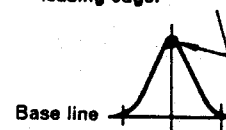


Fig. 8

- Use the T202 core to form the S-curve shown in Figure 9. Adjust the symmetry of A and B about point C for linearity.

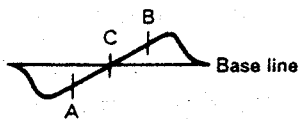
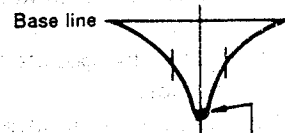


Fig. 9

- Connect the frequency counter to TP301 and connect a $220k\Omega$ resistor parallel with the frequency counter.
- Feed in a weak signal from the genescope. Adjust T201, T203 for maximum gain and the waveform of Figure 10.



Adjust the genescope output so that there is a little noise riding on the leading edge.

Fig. 10

2. Tape Recorder Section

Perform the following adjustments in the sequence stated after cleaning the heads, pressure roller, and capstan with a head cleaning stick moistened in alcohol.

Step	Adjustment Item	Measuring Instrument and connection			Check Tape	Mode	Adjusted Position	Adjusted Value	Remarks
		Measuring Instrument	Input Terminal	Output Terminal					
1	Head azimuth	• VTVM	—	Speaker terminal (3.2 Ω load)	Head azimuth test tape (10 kHz)	Playback	Azimuth adjusting screw	Output Max.	Note 1

Note:

- When the maximum values of both channels are different, adjust to the maximum value of the L channel. In this case, the difference between the maximum values of both channels should be within 2 dB.

ADJUSTMENT PARTS LOCATION

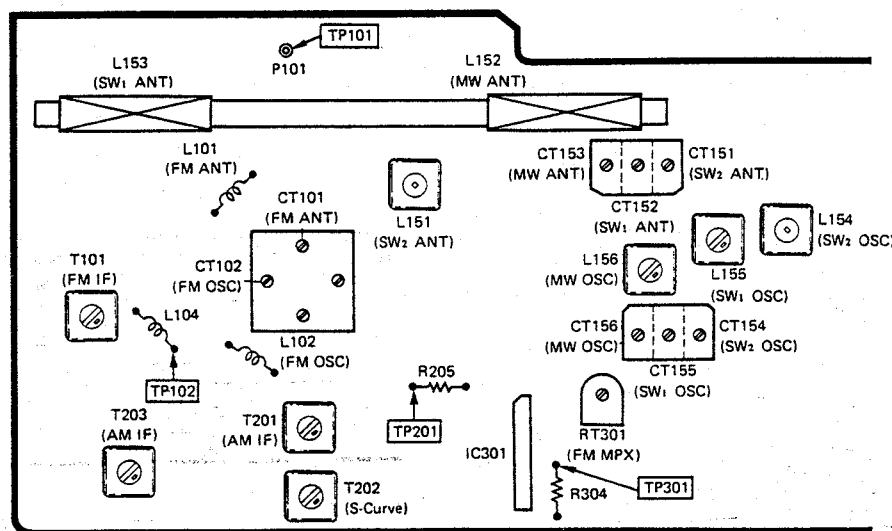


Fig. 11

INSPECTION OF MECHANISM

Item	Checking item		Reference value	Remarks
1	Pressure of pressure roller		300 – 550 g	Note 1
2	Take-up torque		35 – 75 g.cm	
3	Fast forward/Rewind torque		70 – 160 g.cm	TAPE 2
			90 – 150 g.cm	TAPE 1
4	Auto-Stop sensor operation force		40 – 75 g	
5	Brake torque		15 g.cm or more	Measured in stop mode
6	Back tension torque	Take-up	2 – 6.5 g.cm	TAPE 2
			1 – 6 g.cm	TAPE 1
		Supply	1 – 6 g.cm	
7	Flywheel thrust gap		0.05 – 0.3 mm	
8	Button operation force	Play button	0.5 kg or less	
		FF/CUE button	0.7 kg or less	
		Rewind/Rev button	0.9 kg or less	
		Eject button	0.4 kg or less	
		Record button	0.6 kg or less	
		Pause button	0.7 kg or less	

Note:

1. Set this unit in the playback mode and press the pressure roller in the direction of the arrow using a fan type tension gauge, and measure the pressure when the pressure roller is released from the capstan.

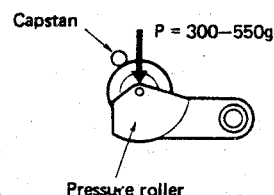


Fig. 12

LUBRICATION

Lubricate one or two drops of oil to rotating point or lubricate grease to sliding point.

Lubricate the respective parts listed once every 1000 hours or once a year under normal conditions of use.

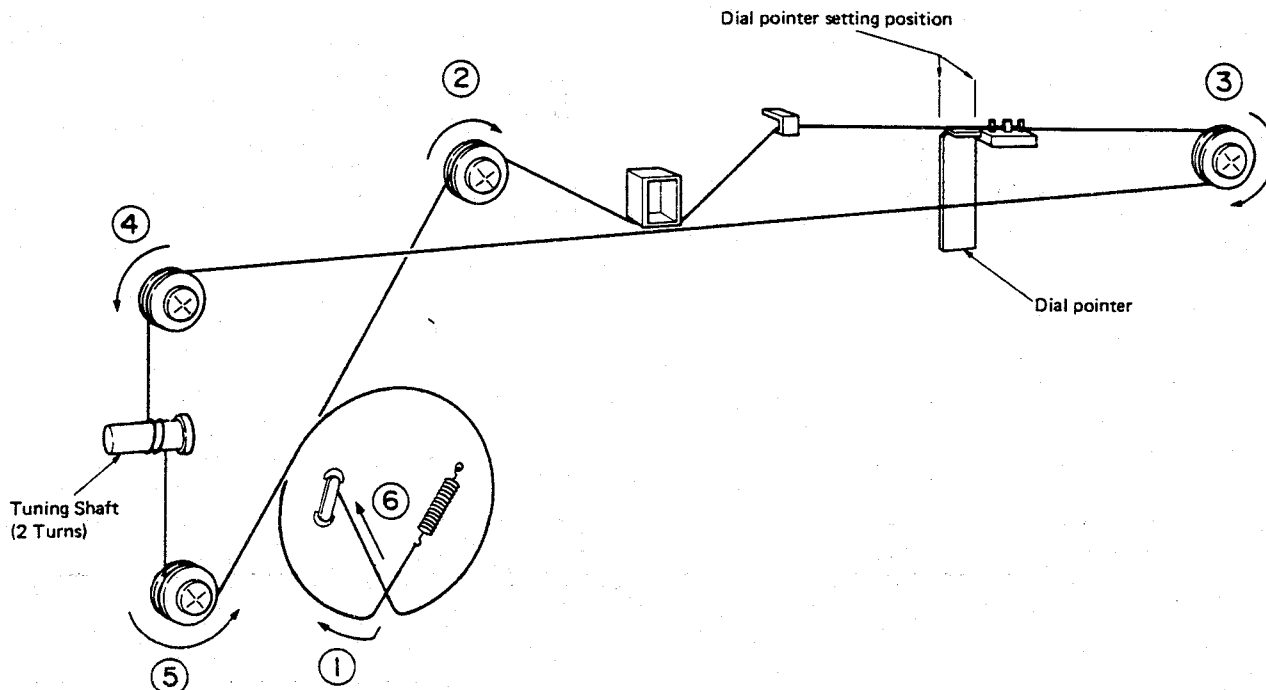
Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication point		Oil or Grease
Rotary section	Metal and metal	Pan motor oil (10W-40)
	Mold and metal	Sonic slider oil (#1600)
Sliding section	Metal and metal	Hitasol (MO-138)
	Mold and mold	White grease (FL-LUBE-A)
	Mold and metal	
Spring resonance prevention		Floil (GB-TS-1)

DIAL CORD STRINGING

Stringing method

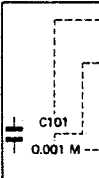





- String the dial cord to each rollers according to the order from ① to ⑥ after turned the pulley to the end of clockwise direction.



Notes:

- Voltage measured at base of chassis with minimum volume control and no signal.
- Nomenclature of Resistors and Capacitors.

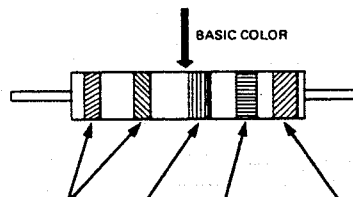
Circuit No.	
Value	No indicated Ω (Ohm) M : 1000 k Ω
Tolerance	No indicated $\pm 5\%$ K : $\pm 10\%$ M : $\pm 20\%$
Wattage	No indicated 1/4 W
Sort	No indicated Carbon film RC: Composition RW: Wire wound RS: Oxide metal film RN: Fixed metal film

 C101 0.001 M	Circuit No.		
	Value	No indicated μF P : PF	
	Tolerance	No indicated $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $+80\%$, -20% D : $\pm 0.5PF$ C : $\pm 0.25pF$	
	Sort		Ceramic
			Electrolytic
			Mylar
			Polyester
		Styrol	
Voltage	No indicated 50WV		

- Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
- When replacing capacitors marked with * , use specified ones stated on parts list since required temperature characteristics.

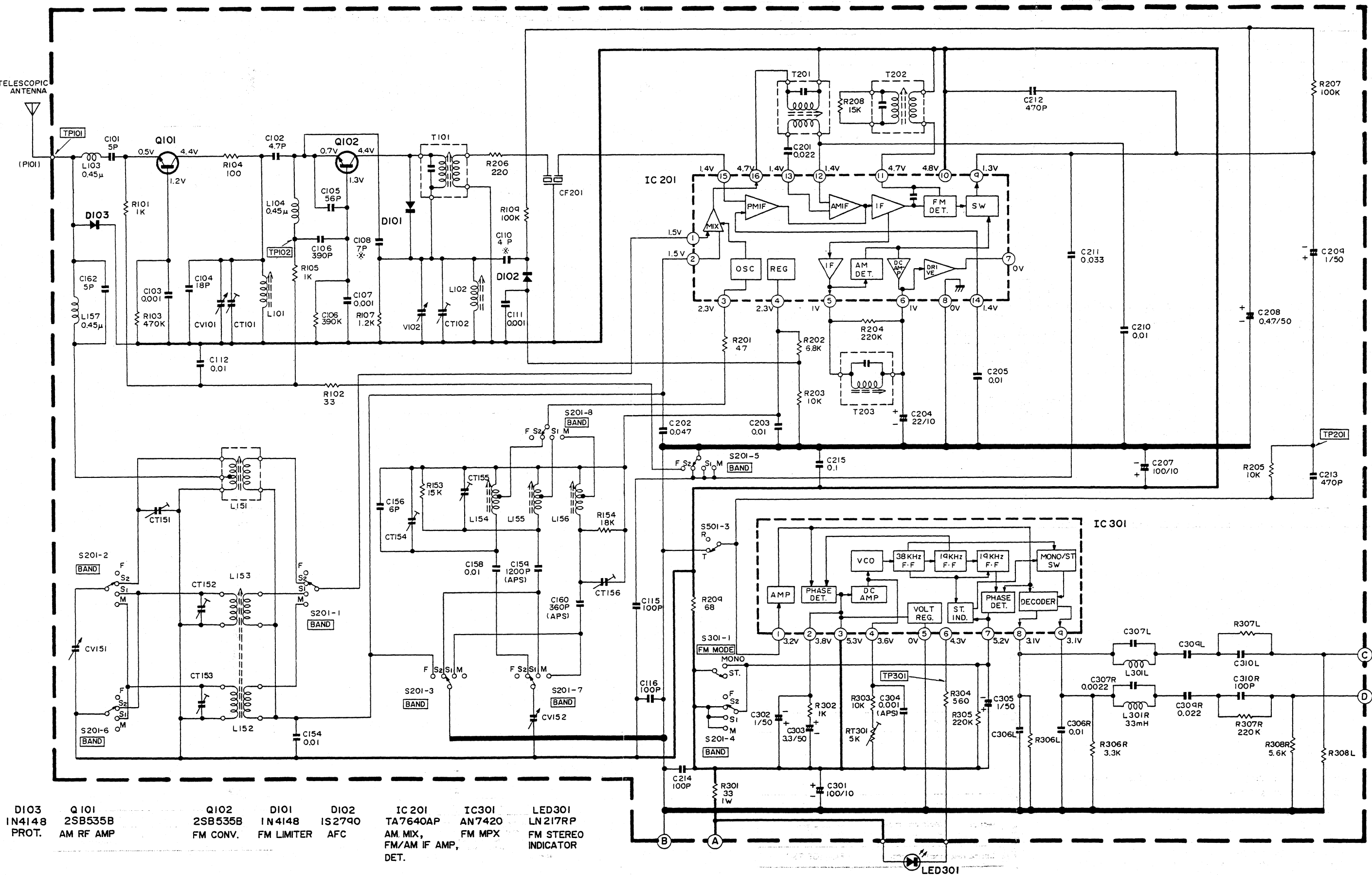
HOW TO READ CAPACITY OF RESISTOR SHAPE CAPACITORS

COLOR	RATED VOLTAGE
Pink	25V
Light green	50V

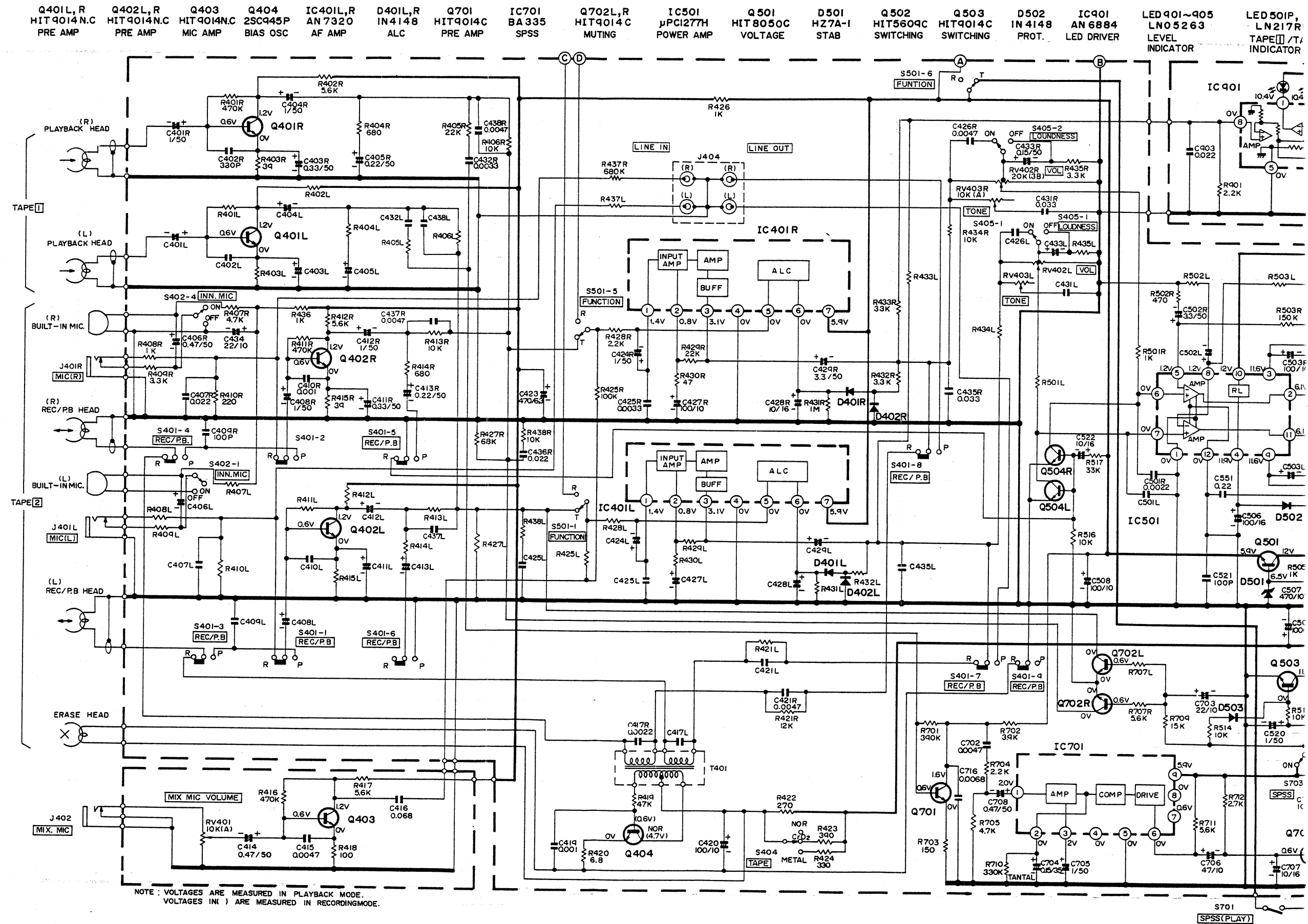


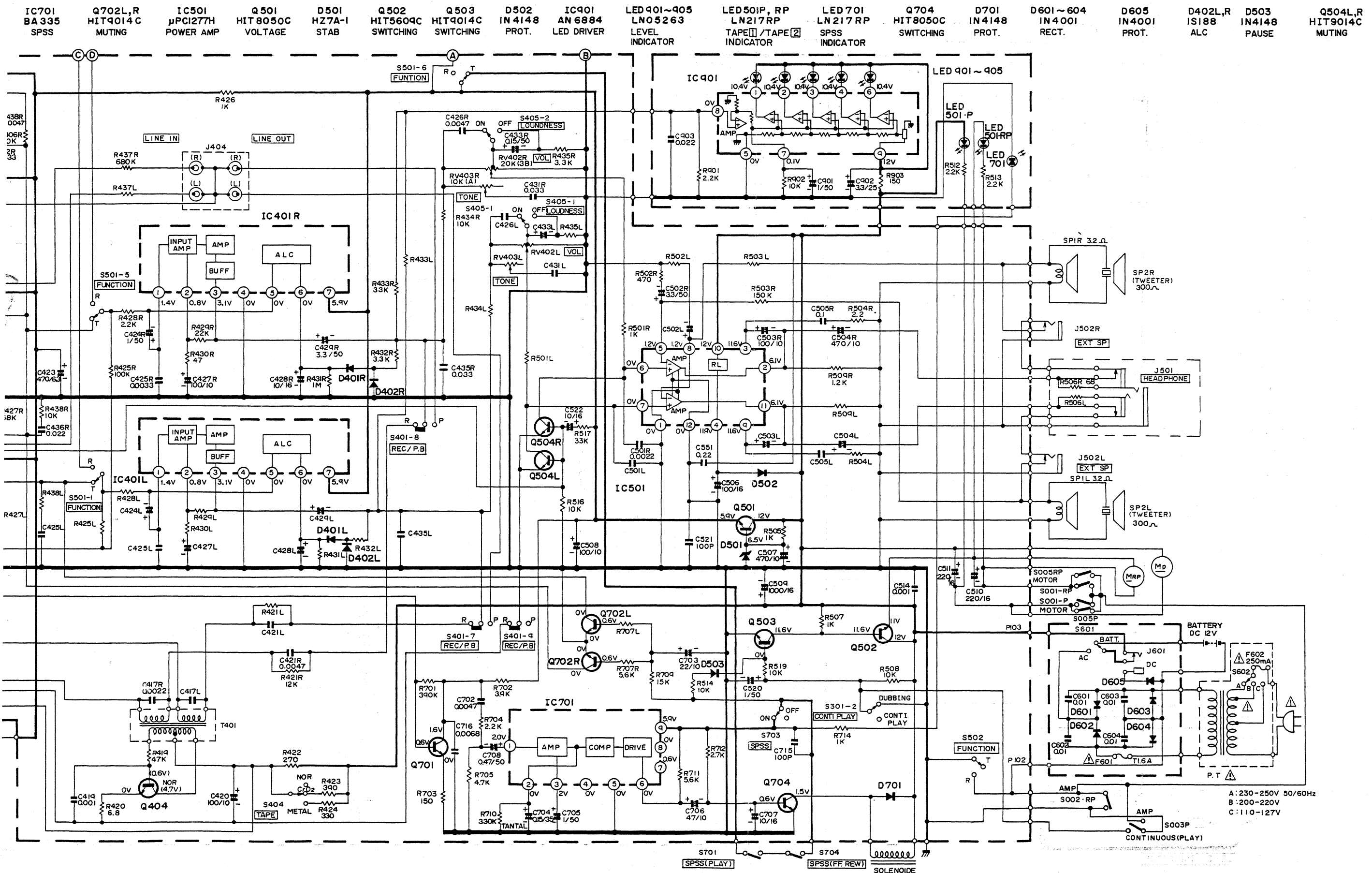
COLOR	CAPACITY	MULTIPLE	TOLERANCE	CHARACTERISTICS
Black	0	10^0	$\pm 20\%$	For temperature compensation
Brown	1	10^1		
Red	2	10^2		
Orange	3	10^3		
Yellow	4	10^4		
Green	5	10^5		
Blue	6			
Violet	7			
Grey	8		$\pm 30\%$	High dielectric constant type
White	9			For temperature compensation
Gold		10^{-1}	$\pm 5\%$	
Silver		10^{-2}	$\pm 10\%$	High dielectric constant type

SCHEMATIC DIAGRAM (Radio Section)

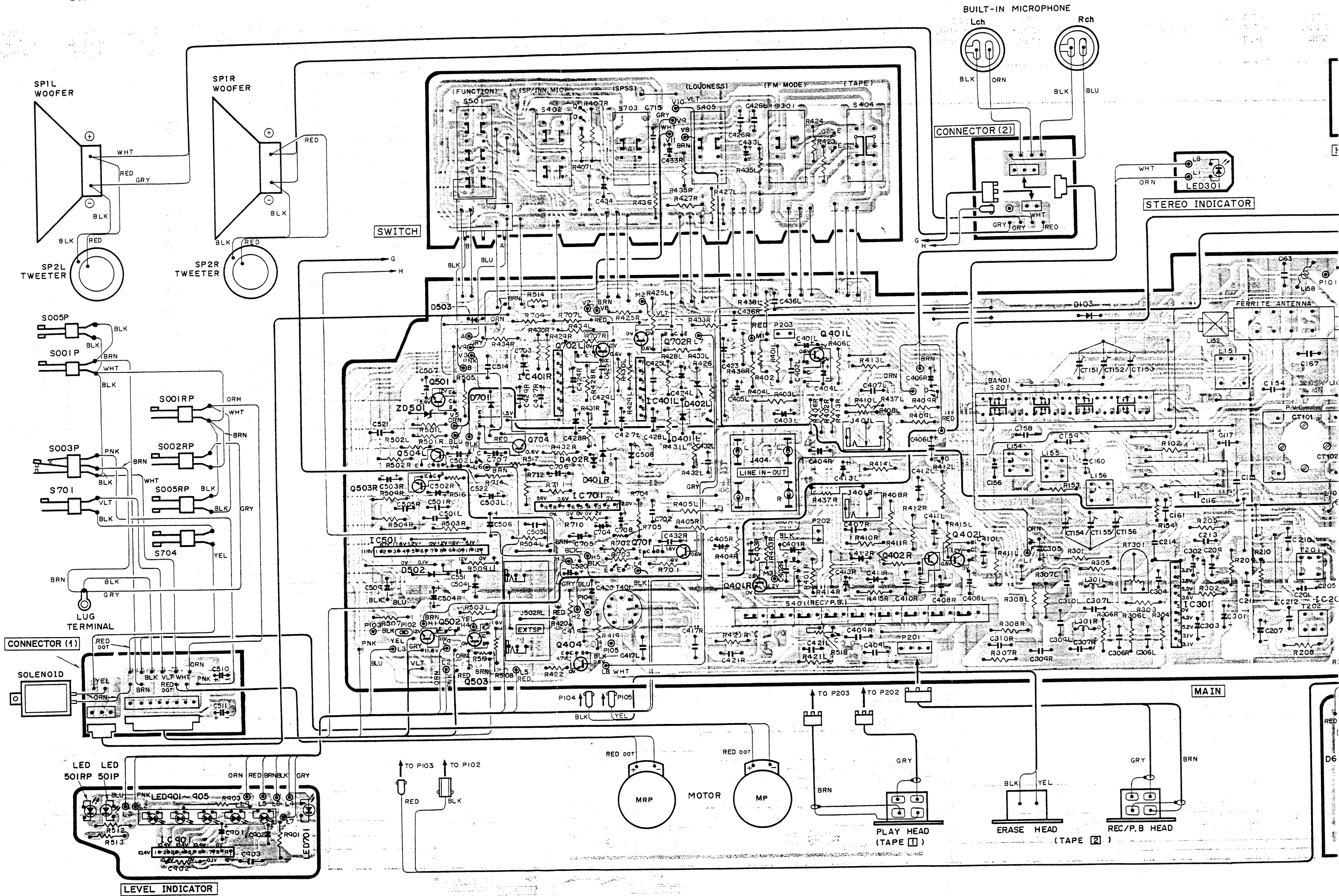


SCHEMATIC DIAGRAM (Tape/Audio Section)





CIRCUIT BOARD DIAGRAM





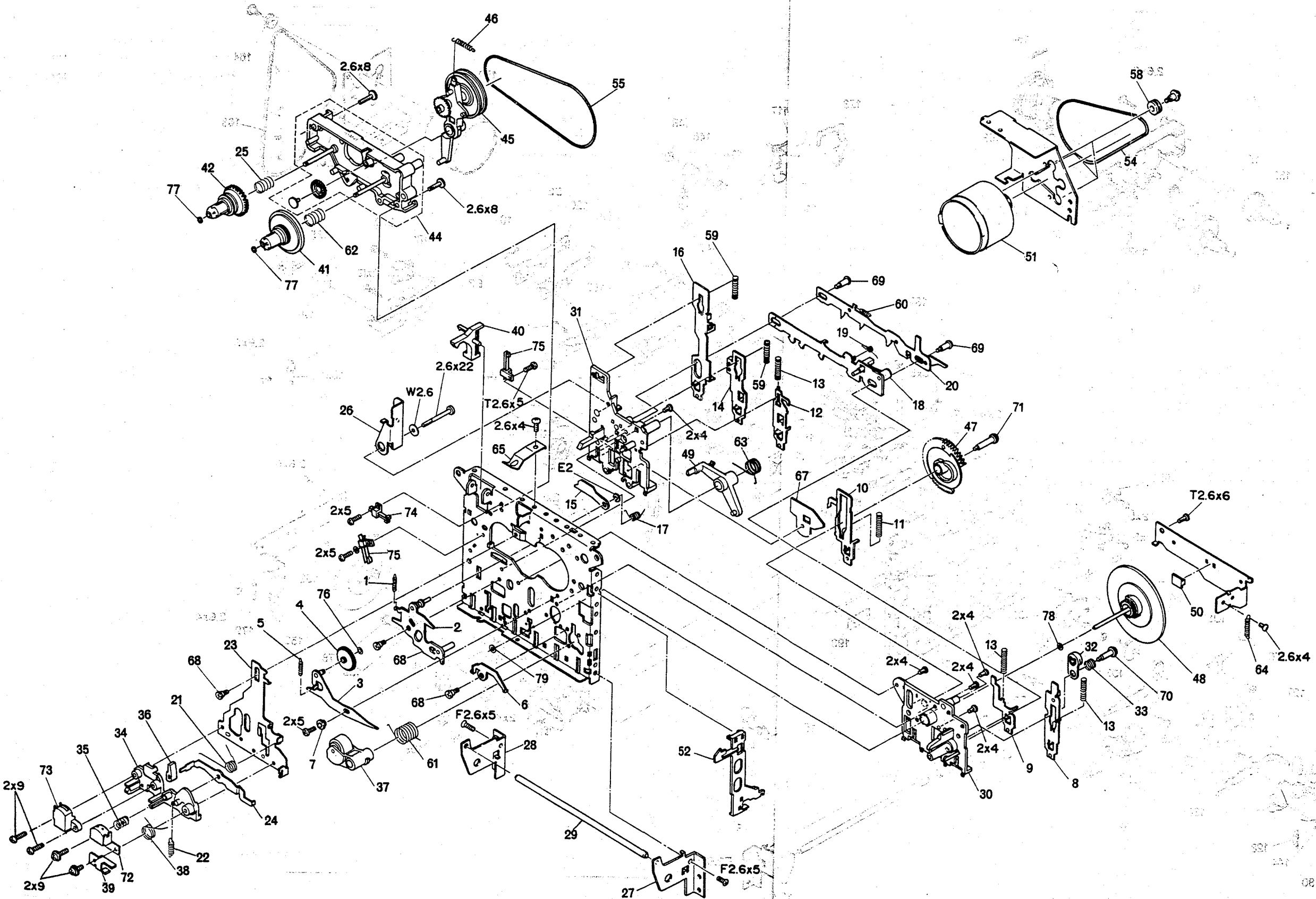
REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
CAPACITORS			TRANSISTOR HIT8050C		
CT151-156	0283565	VARIABLE CAPACITOR	TRANSFORMERS		
C102	0208125	CERAMIC (RESISTOR SHAPE) 4.7PF+-5%	△ PT	5213453	POWER TRANSFORMER
C108	0248477	CERAMIC DISC CAPACITOR 7PF 0.5PF	T101	5148162	FM IF TRANSFORMER
C704	0256361	TANTALUM ELECTROLYTIC 0.15MF+-10% 3.5V	T201	5132222	AM IF TRANSFORMER
CT101, 102	5052682	VARIABLE CAPACITOR	T202	5148164	FM IF TRANSFORMER
CV101, 102			T203	5132221	AM IF TRANSFORMER
RESISTORS			T401	5260481	OSCILLATOR COIL
RT301	5007682	SEMI VARIABLE 5KOHM	COILS		
RV401	5001091	VARIABLE RESISTOR 10KOHM(A)	L101	5127083	FM RF COIL
RV402LR	5020172	VARIABLE RESISTOR 20KOHM(3B)	L102	5127081	FM OSCILLATOR COIL
RV403LR	5020181	VARIABLE RESISTOR 10KOHM(A)	L103-104	5127084	CHOKE COIL
SEMI-CONDUCTORS			L151	5124023	SW ANTENNA COIL
D101	5331852	DIODE 1N4148	L152-153	5110551	FERRITE ANTENNA
D102	5330661	DIODE SILICON 1S2790	L154	5124032	SW2 OSCILLATOR COIL
D103	5331852	DIODE 1N4148	L155	5120883	SW1 OSCILLATOR COIL
D401LR	5331852	DIODE 1N4148	L156	5120881	MW OSCILLATOR COIL
D402LR	5331902	DIODE 1S188(FM)	L158	5127084	CHOKE COIL
D501	5330317	ZENNER DIODE HZ7A-1	L301LR	5152451	TRAP COIL
D502	5331852	DIODE 1N4148	MISCELLANEOUS		
D503	5331851	DIODE 1N4148	△	5746314	POWER CORD
D601-605	5331992	DIODE 1N4001	CF201	5160211	CERAMIC FILTER CF107A
D701	5331852	DIODE 1N4148	△ F601	5721374	FUSE 1.6A
IC201	5368011	IC TA7640AP	△ F602	5721472	FUSE 250MA
IC301	5369941	IC AN7420	J401LR	5673241	JACK-3.5MM (MIC)
IC401LR	5369931	IC AN7320	J402	5673241	JACK-3.5MM (MIX. MIC)
IC501	5352971	IC APC1277H	J404	5676351	4P PIN JACK (LINE IN/OUT)
IC701	5352033	IC BA335	J501	5674245	HEADPHONE JACK
IC901	5355471	IC AN6884	J502LR	5676201	2P PIN JACK (EXT. SP.)
LED301	5380593	LED LN217RP	J601	5671262	DC JACK
LED501P	5380593	LED LN217RP	S201	5620662	SLIDE SWITCH (BAND)
LED501RP	5380593	LED LN217RP	S301	5604601	LEVER SWITCH (FM MODE/CONTI PLAY)
LED701	5380593	LED LN217RP	S401	5622471	SLIDE SWITCH (REC/P.B.)
LED901-905	5380951	LED LN05263P	S402	5604603	LEVER SWITCH (INNER MIC/SPEAKER)
Q101-102	0573510	TRANSISTOR 2SC535B	S404	5604602	LEVER SWITCH (TAPE)
Q401LR	5322591	TRANSISTOR HIT9014N-C	S405	5604601	LEVER SWITCH (LOUDNESS)
Q402LR	5322591	TRANSISTOR HIT9014N-C	S501	5604604	LEVER SWITCH (FUNCTION)
Q403	5322591	TRANSISTOR HIT9014N-C	S502	5601224	MICRO SWITCH (FUNCTION)
Q404	5320813	TRANSISTOR 2SC945P	S601	5622341	SLIDE SWITCH (AC/BATT.)
Q501	5322522	TRANSISTOR HIT8050C	△ S402	5605251	ROTARY SWITCH (VOLTAGE SELECTOR)
Q502	5322542	TRANSISTOR HIT5609C	S703	5604601	LEVER SWITCH (SPSS)
Q503	5322581	TRANSISTOR HIT9014C	FOR ACCESSORIES		
Q504LR	5322581	TRANSISTOR HIT9014C	△	5660212	SIEMENS PLUG
Q701	5322581	TRANSISTOR HIT9014C			
Q702LR	5322581	TRANSISTOR HIT9014C			

REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
GT-50FA chassis (TAPE 2)					
1	6544141	SHIFT ARM SPRING	40	6777971	REC SENSOR
2	7359271	SHIFT ARM ASSEMBLY	41	6414951	TAKE-UP REEL ASSEMBLY
3	7359211	IDLER ARM ASSEMBLY	42	6414961	SUPPLY REEL ASSEMBLY
4	6778041	PLAY IDLER	43	6521642	TENSION ARM
5	6544181	IDLER SPRING	44	6777941	REEL BASE ASSEMBLY
6	7359111	PAUSE ARM	45	6777901	CLUTCH ARM ASSEMBLY
7	7570841	COLLAR	46	6544292	CLUTCH ARM SPRING
8	7359121	PAUSE LEVER ASSEMBLY	47	6433451	GEAR
9	7359141	STOP LEVER	48	6374651	FLYWHEEL ASSEMBLY
10	7359151	FF LEVER	49	6777831	LOCK ARM
11	6521671	FF LEVER SPRING	50	6777821	CAPSTAN SPACER
12	7359161	REWIND LEVER	51	5577912	DC MOTOR ASSEMBLY
13	6521661	REWIND LEVER SPRING	52	6777811	EJECT LEVER
14	7359171	PLAY LEVER	53	6777961	BUTTON LEVER
15	7359222	REC LEVER (BH)	54	6356041	BELT
16	7359251	REC LEVER	55	6356031	BELT
17	6549431	REC LEVER SPRING	56	5559401	COUNTER
18	7359101	LOCK CAM (A) ASSEMBLY	57	6355262	COUNTER BELT
19	6549491	AUTO ARM SPRING	58	6587211	MOTOR CUSHION
20	7359061	LOCK CAM (B) ASSEMBLY	59	6521651	LEVER SPRING
21	6549481	HEAD PLATE SPRING	60	6544171	CAM SPRING
22	6544161	HEAD PLATE SPRING	61	6549471	PRESSURE ROLLER SPRING (B)
23	7359301	HEAD PLATE	62	6521641	DACK TENSION SPRING
24	7359041	AUTO STOP ARM	63	6549451	LOCK ARM SPRING
25	6521642	BACK TENSION SPRING	64	6544151	EJECT LEVER SPRING
26	7359021	REC ARM	65	6537241	CASSETTE HOLDER SPRING
27	7358991	BUTTON HOLDER (R)	66	7789011	HEAD SPACER (FOR HEAD HEIGHT ADJUSTMENT)
28	7358981	BUTTON HOLDER (L)	67	7360351	INTER LOCK ARM
29	4500021	BUTTON SHAFT	68	7783501	SCREW
30	6777841	LEVER HOLDER (A) ASSEMBLY	69	7783511	SCREW
31	6778011	LEVER HOLDER (B)	70	7783521	SCREW
32	6777991	PAUSE CAM	71	7783531	SCREW
33	6521681	PAUSE CAM SPRING	72	5449121	RECORD/PLAYBACK HEAD
34	6777981	HEAD BASE	73	5445371	ERASE HEAD
35	6521682	HEAD SPRING	74	5603791	LEAF SWITCH (AMP.)
36	6777861	SENSOR CAP	75	5603801	LEAF SWITCH (MOTOR)
37	6344701	PRESSURE ROLLER ASSEMBLY	76	7787695	POLYSLIDER WASHER
38	6549501	PRESSURE ROLLER SPRING	77	7787711	POLY SLIDER WASHER
39	7360431	PRESSURE ROLLER SPRING HOLDER	78	7787692	POLY SLIDER WASHER
			79	7768234	NYLON WASHER

EXPLODED VIEW (TAPE 2 Mechanism, GT-50FA)



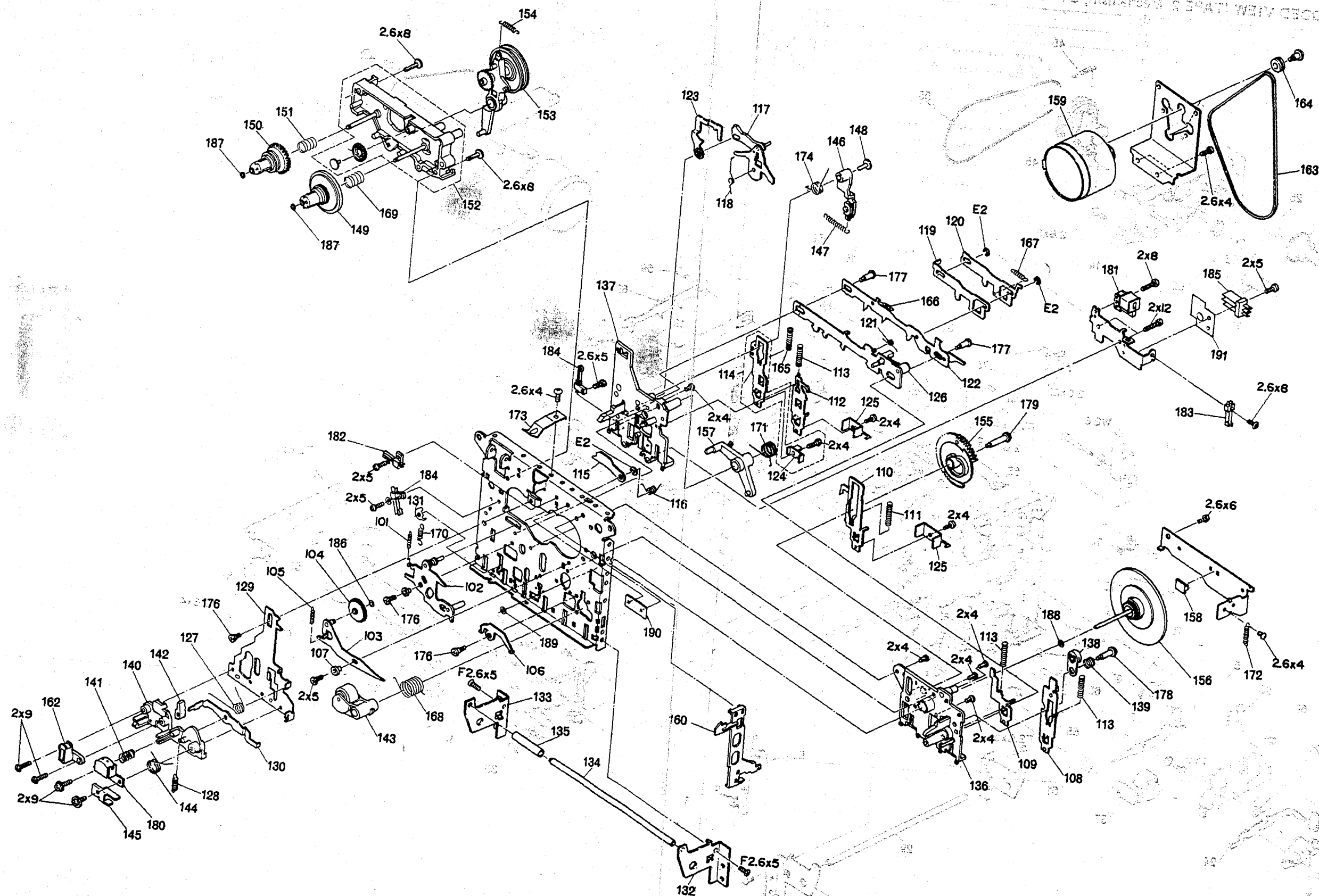
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EXPLODED VIEW (TAPE 1 Mechanism, GT-50FB)

EXPLODED VIEW (TAPE 1 Mechanism, GT-50FB)













REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
GT-50FB chassis (TAPE 2)					
101	6544141	SHIFT ARM SPRING	146	6777871	SOLENOID ARM
102	7359271	SHIFT ARM ASSEMBLY	147	6544281	SOLENOID ARM SPRING
103	7359211	IDLER ARM ASSEMBLY	148	6778051	BUSH
104	6778041	PLAY IDLER	149	6414951	TAKE-UP REEL ASSEMBLY
105	6544181	IDLER SPRING	150	6414961	SUPPLY REEL ASSEMBLY
106	7359111	PAUSE ARM	151	6521642	TENSION ARM SPRING
107	7570841	COLLAR	152	6777941	REEL BASE ASSEMBLY
108	7359121	PAUSE LEVER ASSEMBLY	153	6777901	CLUTCH ARM ASSEMBLY
109	7359141	STOP LEVER	154	6544291	CLUTCH ARM SPRING
110	7359151	FF LEVER	155	6433451	GEAR
111	6521671	FF LEVER SPRING	156	6374641	FLYWHEEL ASSEMBLY
112	7359161	REWIND LEVER	157	6777831	LOCK ARM
113	6521661	REWIND LEVER SPRING	158	6777821	CAPSTAN SPACER
114	7359191	PLAY LEVER ASSEMBLY	159	5577911	DC MOTOR ASSEMBLY
115	7359221	REC LEVER (B)	160	6777811	EJECT LEVER
116	6549431	REC LEVER SPRING	161	6777961	BUTTON LEVER
117	7359281	REVIEW/CUE ARM ASSEMBLY	162	6777801	TAPE GUIDE
118	6549421	REVIEW/CUE ARM SPRING	163	6356011	BELT
119	7359231	LOCK CAM (S)	164	6587211	MOTOR CUSHION
120	7359241	LOCK CAM (R)	165	6521651	LEVER SPRING
121	6549491	AUTO ARM SPRING	166	6544171	CAM SPRING
122	7359051	LOCK CAM (B) ASSEMBLY	167	6544172	S CAM SPRING
123	7359071	TRIGGER ARM	168	6549471	PRESSURE ROLLER SPRING (B)
124	7359081	PLAY SWITCH LEVER	169	6521641	BACK TENSION SPRING
125	7360441	SWITCH LEVER (FR)	170	6544152	FF GEAR SPRING
126	7359091	LOCK CAM (C) ASSEMBLY	171	6549451	LOCK ARM SPRING
127	6549481	HEAD PLATE SPRING	172	6544151	EJECT LEVER SPRING
128	6544161	HEAD PLATE SPRING	173	6537241	CASSETTE HOLDER SPRING
129	7359301	HEAD PLATE	174	6549441	TRIGGER ARM SPRING
130	7359041	AUTO STOP ARM	175	7789011	HEAD SPACER (FOR HEAD HEIGHT ADJUSTMENT)
131	7358951	REVIEW/CUE LOCK ARM (N) ASSEMBLY	176	7783501	SCREW
132	7358991	BUTTON HOLDER (R)	177	7783511	SCREW
133	7358981	BUTTON HOLDER (L)	178	7783521	SCREW
134	4500021	BUTTON SHAFT	179	7783531	SCREW
135	7570761	BUTTON COLLAR	180	5449121	PLAYBACK HEAD
136	6777841	LEVER HOLDER (A) ASSEMBLY	181	5644251	SOLENOID
137	6778011	LEVER HOLDER (B)	182	5603771	LEAF SWITCH(SPSS PLAY)
138	6777991	PAUSE CAM	183	5603781	LEAF SWITCH(FF/REW)
139	6521681	PAUSE CAM SPRING	184	5603801	LEAF SWITCH(MOTOR)
140	6777981	HEAD BASE	185	5603761	LEAF SWITCH(CONTI, PLAY)
141	6521682	HEAD SPRING	186	7787695	POLYSLIDER WASHER
142	6777861	SENSOR CAP	187	7787711	POLY SLIDER WASHER
143	6344701	PRESSURE ROLLER ASSEMBLY	188	7787692	POLY SLIDER WASHER
144	6549501	PRESSURE ROLLER SPRING	189	7768234	NYLON WASHER
145	7360431	PRESSURE ROLLER SPRING HOLDER	190	7684691	SPACER
			191	7684701	INSULATION SHEET

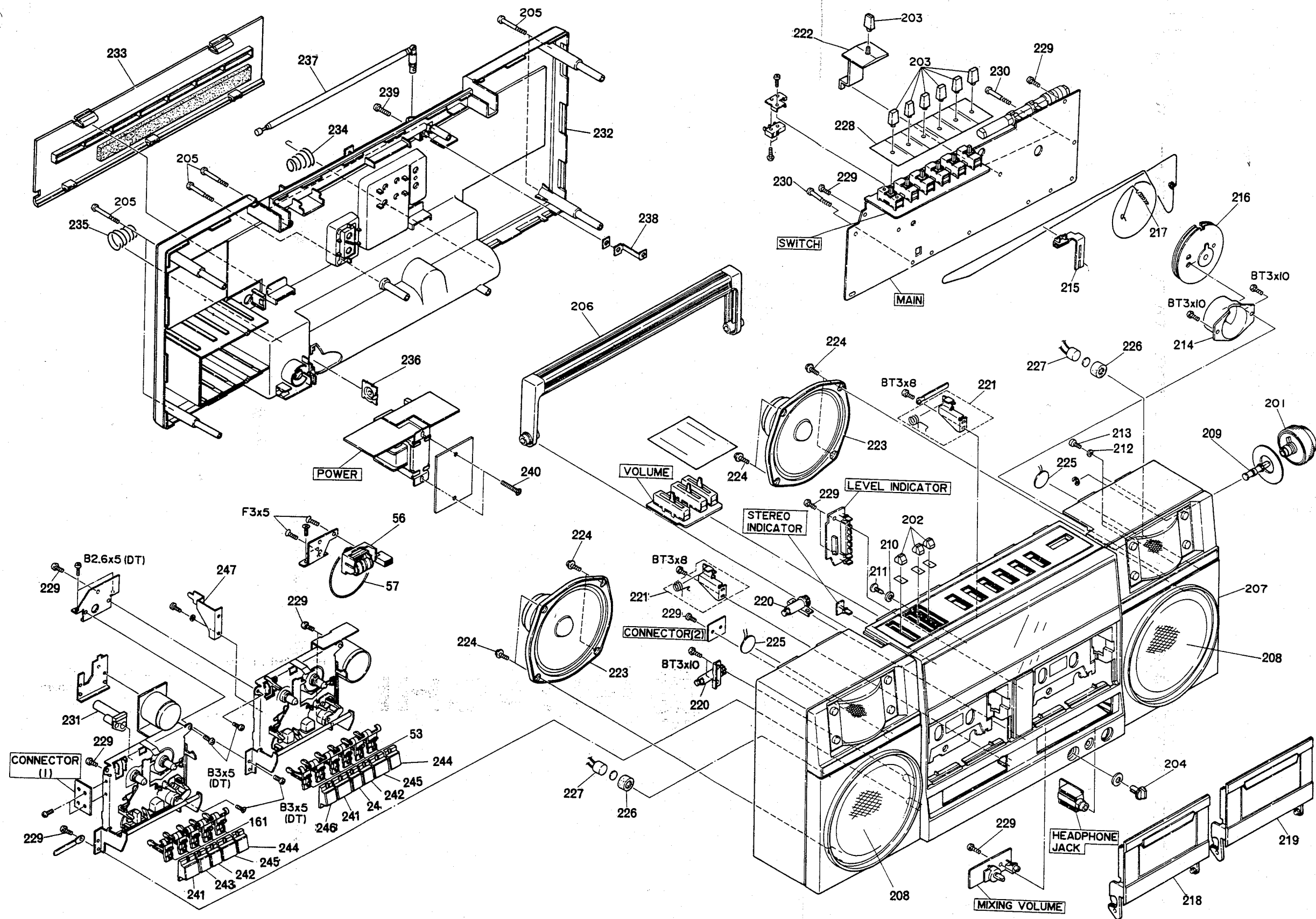
REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
MISCELLANEOUS					
201	6055154	TUNING KNOB	224	7781133	BT SCREW-3MMD
202	6295741	SLIDE KNOB (VOLUME, TONE)	225	5419074	SPEAKER-TWEETER
203	6295751	LEVER KNOB (FUNCTION, SPSS, SP, INNER MIC, LOUDNESS, MODE, TAPE, BAND)	226	6570221	MICROPHONE HOLDER
204	6285861	KNOB (MIXING VOLUME)	227	5421501	BUILT-IN MICROPHONE
205	7781148	BT SCREW-3MMDX50MM	228	7741481	SPACER
206	6334563	HANDLE ASSEMBLY	229	8699412	BIND TAPPING SCREW-3MMDX12MM(BLACK)
207	6038137	FRONT CASE ASSEMBLY	230	7777947	BIND TAPPING SCREW-3MMDX50MM
208	6776721	SPEAKER GRILL	231	6777141	PCB STUD
209	7581971	TUNING SHAFT	232	6038111	REAR CASE ASSEMBLY
210	6344051	ROLLER	233	6174791	BATTERY LID ASSEMBLY
211	7564281	ROLLER PIN	234	6520871	BATTERY SPRING
212	0661058	80 ROLLER P	235	0681129	SPRING A
213	7777602	SPECIAL SCREW	236	7450344	BATTERY TERMINAL
214	6776521	PULLEY HOLDER	237	5752711	TELESCOPIC ANTENNA
215	6398961	POINTER	238	7355121	TELESCOPIC ANTENNA BRACKET
216	6423251	PULLEY	239	8744416	BIND SCREW-3MMDX16MM
217	6316231	SPRING M	240	7781148	BT SCREW-3MMDX50MM
218	6094591	CASSETTE LID (TAPE 1)	241	6060661	BUTTON (PLAY)
219	6094592	CASSETTE LID (TAPE 2)	242	6060671	BUTTON (F.F)
220	6763963	GEAR DAMPER ASSEMBLY	243	6060681	BUTTON (REWIND)
221	7355181	EJECT SPRING ASSEMBLY	244	6060691	BUTTON (PAUSE)
222	6776531	BAND LEVER	245	6060701	BUTTON (STOP)
223	5406773	SPEAKER-12CM	246	6060711	BUTTON (REC)
			247	7355092	RECORD PLATE

Type of head					
P	Pan head screw		BT	Binding head tapping screw	
F	Flat countersunk head screw		BL	Bolt	
B	Binding head screw		W	Washer	
T	Round head tapping screw		E	"E" ring	
Length (L mm)					
Diameter (D mm)					

When ordering hardware excluding stated on these lists, be sure to make your orders with type and size

EXPLODED VIEW (Cabinet)



(290H) IAKOT

TRK-W57V

TRK-W57V

TRK-W57V